LISTING OF CLAIMS

Claims 1-20 (CANCELED)

- 21. (NEW) An isolated peptide comprising the amino acid sequence set forth in SEQ ID NO:1 which interacts with anti-apoptotic proteins of the Bcl-2 family.
- 22. (NEW) The isolated peptide of claim 21, wherein the anti-apoptotic proteins of the Bcl-2 family are selected from, Bcl-XL, Bcl-2 and/or Bcl-W.
- 23. (NEW) The isolated peptide of claim 21, which corresponds to a fragment or point mutant of the peptide comprising the sequence set forth in SEQ ID NO:1.
- **24.** (NEW) A nucleic acid sequence coding for the peptide of claim 21, comprising the sequence set forth in SEQ ID NO:2.
- **25.** (NEW) A nucleic acid sequence deduced according to the genetic code from the amino acid sequence of claim 21.
- **26.** (NEW) A nucleic acid sequence deduced according to the genetic code from the amino acid sequence of the peptide of claim 23.
- 27. (NEW) A recombinant vector, comprising the sequence set forth in SEQ ID NO: 2 which is operably linked to regulatory elements for expression of the peptide of claim 21.
- **28.** (NEW) The recombinant vector of claim 27, which is a plasmid comprising the regulatory elements necessary for expression of the peptide in a host cell.

- 29. (NEW) A host cell, which has been transformed with the recombinant vector of claim 27.
- **30.** (NEW) A method for identifying a compound which modifies the interaction between the peptide of claim 21, and an anti-apoptotic protein of the Bcl-2 family, comprising the following steps:
 - a) fluorescently labelling the peptide of claim 21;
 - b) incubating the labelled peptide in the presence or absence of a test compound;
 - c) adding a fusion protein comprising an anti-apoptotic protein of the Bcl-2 family; and
 - d) measuring the fluorescence polarisation.
- 31. (NEW) A method for identifying a compound which inhibits the interaction between the peptide of claim 21, and an anti-apoptotic protein of the Bcl-2 family, comprising the following steps:
 - a) fluorescently labelling the peptide of claim 21;
 - b) incubating the labelled peptide in the presence or absence of a test compound;
 - c) adding a fusion protein comprising an anti-apoptotic protein of the Bcl-2 family;
 - d) measuring the fluorescence polarisation; and
 - e) selecting a test compound for which the increase in fluorescence polarisation observed with the test compound is significantly less than that observed without the test compound.
- **32.** (NEW) A method for identifying a compound which enhances the interaction between the peptide of claim 21, and an anti-apoptotic protein of the Bcl-2 family, comprising the following steps:
 - a) fluorescently labelling the peptide of claim 21;
 - b) incubating the labelled peptide in the presence or absence of a test compound;
 - c) adding a fusion protein comprising an anti-apoptotic protein of the Bcl-2 family;
 - d) measuring the fluorescence polarisation; and

- e) selecting a test compound for which the increase in fluorescence polarisation observed with the test compound is significantly greater than that observed without the test compound.
- 33. (NEW) The method of claim 30, wherein the anti-apoptotic protein of the Bcl-2 family is Bcl-2.
- **34.** (NEW) The method of claim 30, wherein the anti-apoptotic protein of the Bcl-2 family is Bcl-XL.
- **35.** (NEW) The method of claim 30, wherein the anti-apoptotic protein of the Bcl-2 family is Bcl-W.
- **36.** (NEW) The method of claim 30, wherein the peptide comprises the amino acid sequence set forth in SEQ ID NO:1.
- **37.** (NEW) The method of claim 30, wherein the peptide is fluorescently labelled with fluorescein.
- **38.** (NEW) The method of claim 30 for identifying a compound to modulate apoptosis.
- **39.** (NEW) The method of claim 30 for identifying a compound for the treatment of pathologies involving deregulation of apoptosis.
- **40.** (NEW) The method of claim 30 for identifying a compound for the treatment of autoimmune diseases, neurological disorders and cancers.